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basic imagery interpretation report

Yurya Mobile IRBM Complex (S)

DEPLOYED STRATEGIC SSM FACILITIES

BE: VARIOUS

USSR

Top Secret

SC-628452/82

RCA-01/0006/82

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INSTALLATION OR ACTIVITY NAME					COUNTRY
Yurya Mobile IRBM Complex					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
NA	See below	See below	See below	See below	See below
MAP REFERENCE					
SAC. USATC, Series 200, Sheets FP0155-8HL, scale 1:200,000 (SECRET)					
LATEST IMAGERY USED					
			NEGATION DATE (If required)		
			NA		

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Installation	Geographic Coordinates	BE No	COMIREX No	NIETB (MRN) No
Yurya Mobile IRBM Base 1	59-06-14N 049-45-23E			
Yurya Mobile IRBM Base 2	59-11-29N 049-46-38E			
Yurya Mobile IRBM Base 3	59-13-12N 049-18-15E			
Yurya Mobile IRBM Base 4	59-20-48N 049-14-08E			
Yurya Mobile IRBM Base 5	59-13-03N 049-25-35E			

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ABSTRACT

1. (S/D) This report describes the five SS-20 mobile IRBM support bases that have been under construction since April 1978 in the Yurya SSM Complex, USSR, a deactivated SS-7 ICBM complex. The five bases are each divided into two areas—an operations area and a general support area. The complex includes a rail-to-road transfer point, a nuclear payload handling facility, and areas where field training has occurred.

INTRODUCTION

2. (TSU) The Yurya SSM Complex [] houses the Yurya Strategic Rocket Forces (SRF) Division, which is subordinate to the Vladimir SRF Army.¹ Five SS-20 mobile IRBM support bases make up the Yurya SRF Division and are the only SS-20 bases in the Vladimir SRF Army. The Yurya SSM Complex is 30 nautical miles (nm) northwest of Kirov and 155 nm southeast of Kotlas in the Eastern European USSR. The rail-to-road transfer point (RTP) is centrally located within the complex and extends approximately 29 nm in a northwest/southeast direction.

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3. (U) The complex is in a heavily forested region with gently undulating terrain. Elevations within the complex range from 152 to 213 meters. The region is important as a source of timber with logging being one of the chief industries.

4. (U) The climate is influenced to some extent by sudden intrusions of arctic air producing drastic temperature changes. Annual temperature extremes range from minus 42 degrees to plus 33 degrees Celsius. Precipitation is heavy in all seasons, and fogs are frequent during the summer. Snow cover usually persists from early November to late April.²

5. (S/D) Facilities associated with the Yurya SRF Division in the Yurya SSM Complex are shown on Figure 1. Six areas that have been named field training areas (FTA) for the SS-20 mobile IRBM system are also associated with the Yurya SSM Complex—one near Mobile IRBM Base 2, three near Mobile IRBM Base 3, one near Mobile IRBM Base 4, and one near the RTP.

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BASIC DESCRIPTION

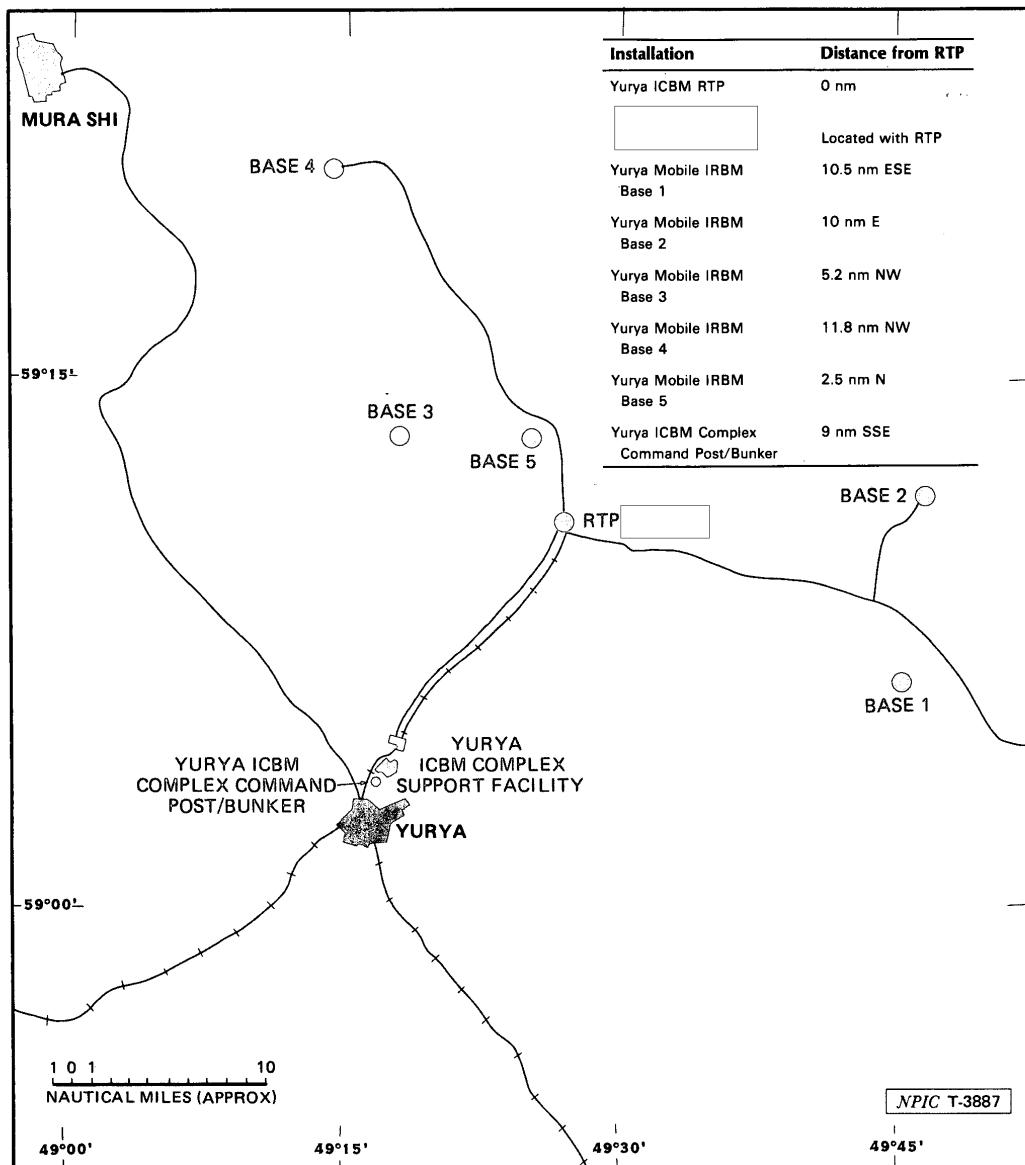
Yurya Mobile IRBM Base 1

6. (S/D) Yurya Mobile IRBM Base 1 was constructed at Yurya Launch Position 9. This launch position was originally a type-IID launch site constructed between April 1963 and February 1964. It was an operational SS-7 launch site that had been dismantled by [redacted]. Conversion to an SS-20 mobile IRBM base was identified on [redacted] by June 1980, the base appeared to be capable of maintaining operational SS-20 mobile missile units. During the conversion process, existing SS-7 facilities were used when feasible; however, many new SS-20-related buildings were constructed (Figures 2 and 3).

7. (S/D) The base is divided by function into two distinct areas—an operations area and a general support area.

Operations Area

8. (S/D) The operations area of Mobile Base 1 (Figure 2 and Table 1) includes nine single-bay, sliding-roof garages; three three-bay garages; one security building; and three smaller structures. The single-bay garages are arranged in groups of three. Each three-bay garage is cable connected to a group of single-bay garages which house a battalion; three battalions form a regiment. Seven bunkers of various sizes, three of which are large enough to accommodate SS-20 launch-related vehicles with missile canisters, are also in the area. The three largest bunkers were previously used as SS-7 missile-ready bunkers and subsequently underwent modification during the SS-20 conversion. The modifications included the addition of vents on the roofs of the bunkers.

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FIGURE 1. LOCATIONS OF SS-20-ASSOCIATED FACILITIES, YURYA SSM COMPLEX, USSR

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9. (S/D) Security for the operations area includes six perimeter fences and a security building at the entrance. Four guardposts are along the perimeter fence. Lighting for the operations area was increased by installing lights approximately every 30 meters along the service roads.

General Support Area

10. (S/D) The general support area (Figure 3 and Table 2) consists of four subareas: a housing/administration area, a vehicle maintenance/storage area, a steam production area, and an agricultural area.

11. (S/D) The housing/administration area consists of three dormitories and four barracks that total [] of roofcover. A messhall; two food storage buildings/bunkers; a bathhouse; a firehouse; a utility building; a greenhouse; a command, control, and communications (C3) building; and an administration building are also within this area.

12. (S/D) The communications system consists of a C3 building with a roof-mounted YU-EL-01 antenna and two [] lattice towers that are cable connected to the control building.

13. (S/D) The vehicle maintenance/storage area consists of one 11-bay garage, one eight-bay garage, one drive-through storage bunker, two workshops/parts storage buildings, and several other smaller buildings. A small security building controls access into this area, which is separately secured by a single fence.

14. (S/D) The steam production area contains buried fuel storage tanks, a steam production plant, a pumphouse, an auxiliary diesel generator plant, and a utility building. This facility is separately secured by a single fence.

15. The agricultural area contains a storage building and an adjacent animal/storage barn.

16. (S/D) A single security fence encircles the entire general support area. Security buildings are at the main entrance to the base and at the entrance to the operations area. The vehicle maintenance/storage area and the steam production area are each separately secured by a single security fence.

Yurya Mobile IRBM Base 2

17. (S/D) Yurya Mobile IRBM Base 2 was constructed at Yurya Launch Position 8. This launch position was originally a type-IID ICBM launch site constructed between October 1962 and December 1963. It was an operational SS-7 launch site that had been dismantled by []. Conversion to an SS-20 mobile IRBM base was identified on [] by December 1979, the base appeared to be capable of maintaining operational SS-20 mobile missile units. During the conversion process, existing SS-7 facilities were used when feasible; however, many new SS-20-related buildings were constructed (Figures 4 and 5).

18. (S/D) The base is divided by function into two distinct areas—an operations area and a general support area.

Operations Area

19. (S/D) The operations area of Mobile Base 2 (Figure 4 and Table 3) includes nine single-bay, sliding-roof garages; three three-bay garages; one security building; and two smaller structures. The single-bay garages are arranged in groups of three. Each three-bay garage is cable connected to a group of single-bay garages which house a battalion; three battalions form a regiment. Seven bunkers of various sizes, three of which are large enough to accommodate SS-20 launch-related vehicles with missile canisters, are also in this area. The three largest bunkers were previously used as SS-7 missile-ready bunkers and subsequently underwent modification during the SS-20 conversion. The modifications included the addition of vents on the roofs of the bunkers. Three of the remaining bunkers were used for receiving, inspecting, and storing [] the seventh bunker was used for GSE storage.

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20. (S/D) Security for the operations area includes six perimeter fences and a security building at the entrance. Four guardposts are along the perimeter fence. Lighting for the operations area was increased by installing lights approximately every 30 meters along the service road.

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General Support Area

21. (S/D) The general support area (Figure 5 and Table 4) consists of four subareas: a housing/administration area, a vehicle maintenance/storage area, a steam production area, and an agricultural area.

22. (S/D) The housing/administration area has four dormitories and five barracks that total 5,234.9 square meters of roofcover. A messhall, two food storage buildings/bunkers, a bathhouse, several utility/storage buildings, a greenhouse, a C3 building, and an administration building are also within this area. A firehouse is on the main access road leading to the base, adjacent to the main security building for the general support area.

23. (S/D) The communications system consists of a C3 building with a roof-mounted YU-EL-01 antenna and two [] lattice towers that are cable connected to the control building.

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24. (S/D) The vehicle maintenance/storage area consists of one 11-bay garage, one eight-bay garage, one drive-through storage bunker, and two workshops/parts storage buildings. A large security building controls access into this area, which is separately secured by a single fence.

25. (S/D) The steam production area contains buried fuel storage tanks, a steam production plant, a pumphouse, an auxiliary diesel generator plant, and a utilities-associated building. The two plants—steam production and auxiliary generator—are each separately secured by a single fence.

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26. (S/D) The agricultural area contains an animal-associated storage buildings, two animal pens, and two other small structures.

27. (S/D) A single security fence encircles the entire general support area. Security buildings are at the main entrance to the general support

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Table 1.
Operations Area, Yurya Mobile IRBM Base 1
(Keyed to Figure 2)

This table in its entirety is classified SECRET//NNINTEL

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Bunker					Earth mounded; previously used as SS-7 missile ready bunker
2	Single-bay garages (9) Door opening					Siding roof; houses SS-20 missile on TEL; various configurations of flat-roofed additions have been added
3	3-bay garages (3) Door opening					Flat roof; single story; 3 sets of doors; houses SS-20 missile support vans
4	Bunker					Earth mounded; has wooden structure in front of bunker
5	Utility bldg					Flat roof; single story
6	Bunker					Earth mounded; previously used for nuclear warhead storage
7	Bunker					Earth mounded; double door
8	Bunker					Earth mounded; previously used for nuclear warhead storage
9	Utility bldg (main bldg annex)					Flat roof; single story
10	Utility bldg					Flat roof; single story
11	Bunker					Earth mounded; previously used as SS-7 missile ready bunker
12	Bunker					Earth mounded; previously used as SS-7 missile ready bunker
13	Security bldg					Flat, stepped-down roof; single story

Table 2.
General Support Area, Yurya Mobile IRBM Base 1
(Keyed to Figure 3)

This table in its entirety is classified SECRET//NNINTEL

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Storage bldg					Flat roof; single story
2	Utility bldg					Flat roof; single story
3	Auxiliary diesel generator plant					Flat roof; single story
4	Storage bunker					Earth mounded; drive through
5	Steam production plant					Flat roof with raised end section
6	Utility bldg					Flat roof; single story
7	Garage					Flat roof; single story with 8 bays
8	Security bldg					Flat roof; single story
9	Garage					Flat roof; single story with 11 bays
10	Firehouse					Flat roof; single story
11	Workshop parts storage bldg					Flat roof; single story
12	Workshop parts storage bldg					Flat roof; single story
13	Bathhouse					Peaked roof; single story
14	Refrigerated food storage bldg					Flat roof; single story
15	Food storage bunker					Arched roof
16	Utility bldg					Flat roof; single story
17	Dormitory					Flat roof; 2 stories
18	Admin bldg					Flat roof; single story
19	Messhall					Flat roof with raised end section
20	C3 bldg					Flat roof; 2 stories; YU-EL-01 on roof
21	Dormitory					Flat roof; 2 stories
22	Baracks/bldg					Peaked roof; 2-story; stepped-down end
23	Dormitory					Flat roof; 2 stories
24	Baracks					Peaked roof; single story
25	Utility bldg					Flat roof; single story
26	Baracks					Peaked roof; single story
27	Baracks					Peaked roof; single story

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Table 3.
Operations Area, Yurya Mobile IRBM Base 2
(Keyed to Figure 4)

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No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Security bldg					Flat, stepped roof, single story.
2	Bunker					Earth mounded, previously used for nuclear warhead storage.
3	Single bay garage (3) Door opening					Siding roof, houses SS-20 missile on TEL, vertical configurations of flat-roofed additions have been added.
4	Three bay garages (3) Door opening					Flat roof, single story, 3 sets of doors. Houses SS-20 missile support vans.
5	Bunker					Earth mounded, has wooden structure in front of bunker previously used for nuclear warhead storage.
6	Bunker					Earth mounded, previously used for nuclear warhead storage.
7	Utility bldg					Flat roof, single story.
8	Bunker					Earth mounded, previously used as SS-7 missile ready bunker.
9	Bunker					Earth mounded, previously used as SS-7 missile ready bunker.
10	Bunker					Earth mounded, previously used as SS-7 missile ready bunker.
11	Bunker					Earth mounded, previously used for GSE storage.

Table 4.
General Support Area, Yurya Mobile 2
(Keyed to Figure 5)

This table in its entirety is classified SECRET//NOINTTEL

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Kitchen					Flat roof, single story.
2	Utility bldg					Flat roof, single story.
3	Oil tank bldg					Flat roof, single story.
4	Security bldg					Stepped roof, single story.
5	Overhouse					Peaked roof, centrally located.
6	Utility bldg					Flat roof, single story.
7	Auto air diesel generator plant					Flat roof, single story.
8	Engine exhaust fan					Flat roof, single story.
9	Storage bldg					Peaked roof, single story.
10	Storage bldg					Peaked roof, single story.
11	Oil tank					Flat roof, 2 stories, 14x16.5 ft on roof.
12	Oil tank					Flat roof, 2 stories.
13	Oil tank					Flat roof, 2 stories.
14	Oil tank					Flat roof, single story.
15	Oil tank					Flat roof, single story, 8 bays.
16	Garage					Peaked roof, single story.
17	Utility bldg					Peaked roof, single story.
18	Storage bldg					Peaked roof, single story.
19	Food storage bunker					Peaked roof, single story.
20	Food storage bldg					Flat roof, single story.
21	Auto bldg					Flat roof, single story.
22	Oil tank					Flat roof, 2 stories.
23	Vehicle					Flat roof, single story.
24	Storage bldg					Flat roof, single story.
25	Garage					Flat roof, single story, 11 bays.
26	Automobile parts stor bldg					Peaked roof, single story.
27	Storage bunker					Earth mounded, drive through.
28	Bed house					Peaked roof, single story.
29	Service					Peaked roof, single story.
30	Service					Peaked roof, single story.
31	Service					Peaked roof, single story.
32	Service					Peaked roof, single story.
33	Service					Peaked roof, single story.
34	Workshop parts stor bldg					Flat roof, single story.
35	Storage bldg					Peaked roof, single story.
36	Storage bldg					Peaked roof, single story.
37	Bed house					Peaked roof, single story.
38	Storage bldg					Peaked roof, single story.
39	Storage bldg					Peaked roof, single story.
40	Storage bldg					Peaked roof, single story.
41	Animal pen					Peaked roof, single story.
42	Animal pen					Peaked roof, single story.

Table 5.
Operations Area, Yurya Mobile IRBM Base 3
(Keyed to Figure 6)
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No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Single bay garage (B) Door opening					Sliding roof, houses SS-20 missile on TEL, various configurations off the loaded sections have been added
2	3 bay garage (C) Door opening					Flat roof, single story, 3 bays of doors, houses SS-20 missile support area
3	Bunker					Earth mounded, has wooden structure in front of bunker
4	Bunker					Earth mounded, previously used for nuclear warhead storage
5	Utility bldg					Flat roof, single story
6	Bunker					Earth mounded
7	Bunker					Earth mounded, previously used as SS-7 missile ready bunker
8	Bunker					Earth mounded, previously used as SS-7 missile ready bunker
9	Armhouse					Flat roof, single story
10	Bunker					Earth mounded
11	Security bldg					Flat roof, single story

Table 6.
General Support Area, Yurya Mobile IRBM Base 3
(Keyed to Figure 7)
This table in its entirety is classified SECRET//NOFORN

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Utility bldg					Flat roof, single story
2	Oil bldg					Flat roof, 2 stories
3	Storage					Flat roof, single story, 11 bays
4	Building parts stor bldg					Flat roof, single story
5	Storage shed					Flat roof
6	Chemical bldg workshop					Flat roof, single story
7	Earth covered oil plant					Flat roof, 2 stories
8	Garagehouse					Flat roof
9	Bunker					Earth mounded, steel through
10	Garagehouse					Single story, covered roof
11	Bunker					Earth mounded, steel through
12	Garagehouse					Flat roof, single story
13	Garagehouse					Flat roof, 2 stories
14	Garagehouse					Flat roof, single story
15	Garagehouse					Flat roof, 2 stories
16	Maypole					Flat roof, single story
17	Food storage bunker					Earth mounded
18	Barracks					Flat roof, single story
19	Barracks					Flat roof, single story
20	Food storage bldg					Flat roof, single story
21	Utility bldg					Flat roof, single story
22	Utility bldg					Flat roof, single story
23	Waste shed					Flat roof, single story
24	Barracks					Flat roof, single story
25	Garagehouse					Flat roof, 3 stories
26	Barracks					Flat roof, single story
27	Barracks					Flat roof, single story

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area, at the vehicle maintenance/storage area, and at the entrance to the operations area. The vehicle maintenance/storage area, the steam production plant, and the auxiliary diesel generator plant are each separately secured by a single security fence.

Yurya Mobile IRBM Base 3

28. (S/D) Yurya Mobile IRBM Base 3 was constructed at Yurya Launch Position 10. This launch position was originally a type-III A ICBM launch site constructed between April 1962 and November 1964. It was an operational SS-7 launch site that had been dismantled by [redacted]. Conversion to an SS-20 mobile IRBM base was identified on [redacted] by December 1980, the base appeared to be capable of maintaining operational SS-20 mobile missile units. During the conversion process, existing SS-7 facilities were used when feasible; however, many new SS-20-related buildings were constructed (Figures 6 and 7).

29. (S/D) The base is divided by function into two distinct areas—an operations area and a general support area.

Operations Area

30. (S/D) The operations area of Mobile Base 3 (Figure 6 and Table 5) includes nine single-bay, sliding-roof garages; three three-bay garages; one security building; a firehouse; and one small structure. The single-bay garages are arranged in groups of three. Each three-bay garage is cable connected to a group of single-bay garages which house a battalion; three battalions form a regiment. Six bunkers of various sizes, two of which are large enough to accommodate SS-20 launch-related vehicles with missile canisters, are also in this area. The two largest bunkers were previously used as SS-7 missile-ready bunkers and subsequently underwent modification during the SS-20 conversion. The modifications included the addition of vents on the roofs of the bunkers.

31. (S/D) Security for the operations area includes six perimeter fences and a security building at the entrance. Four guardposts are along the perimeter fence. Lighting for the operations area was increased by installing lights approximately every 30 meters along the service road.

General Support Area

32. (S/D) The general support area (Figure 7 and Table 6) consists of five subareas: a housing/administration area, a communications area, a vehicle maintenance/storage area, a steam production area, and an agricultural area.

33. (S/D) The housing/administration area has three dormitories and seven barracks that total 5,251 square meters of roofcover. Two messhalls, two food storage buildings/bunkers, a greenhouse, a bathhouse, and several utility buildings are also within this area.

34. (S/D) The communications area consists of a C3 building with a roof-mounted YU-EL-01 antenna, two [redacted] lattice towers that are cable connected to the control building, an 11-

bay garage, and a maintenance building/workshop.

35. (S/D) The vehicle maintenance/storage area consists of two drive-through bunkers and one workshop/parts storage building. A security building controls access into the area.

36. (S/D) The steam production area contains buried fuel storage tanks, a steam production plant, and a pumphouse.

37. (S/D) The agricultural area contains three animal-associated storage buildings, an animal pen, and two other small structures.

38. (S/D) A single security fence encircles the entire general support area. Security buildings are at the main entrance to the general support area, the vehicle maintenance/storage area, the communications area, and the operations area. The vehicle maintenance/storage area and the steam production area are each separately secured by a single security fence. The communications area is separately secured by two security fences.

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Yurya Mobile IRBM Base 4

39. (S/D) Yurya Mobile IRBM Base 4 was constructed at Yurya Launch Position 7. This launch position was originally a type-IIB ICBM launch site constructed between February 1962 and November 1962. It was an operational SS-7 launch site that had been dismantled by [redacted]. Conversion to an SS-20 mobile IRBM base was identified on [redacted] by March 1981, the base appeared to be capable of maintaining operational SS-20 mobile missile units. During the conversion process, existing SS-7 facilities were used when feasible; however, many new SS-20-related buildings were constructed (Figures 8 and 9).

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40. (S/D) The base is divided by function into two distinct areas—an operations area and a general support area.

Operations Area

41. (S/D) The operations area of Mobile Base 4 (Figure 8 and Table 7) includes nine single-bay, sliding-roof garages; three three-bay garages; one security building/bunker; and two smaller structures. The single-bay garages are arranged in groups of three. Each three-bay garage is cable connected to a group of single-bay garages which house a battalion; three battalions form a regiment. Five bunkers of various sizes, two of which are large enough to accommodate SS-20 launch-related vehicles with missile canisters, are also in this area. The two largest bunkers were previously used as SS-7 missile-ready bunkers and subsequently underwent modification during the SS-20 conversion. The modifications included the addition of vents on the roofs of the bunkers.

42. (S/D) Security for the operations area includes six perimeter fences and a security building at the entrance. Four guardposts are along the perimeter fence. Lighting for the operations area was increased by installing lights approximately every 30 meters along the service road.

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Table 7.
Operations Area, Yurya Mobile IRBM Base 4
(Keyed to Figure 8)

This table in its entirety is classified SECRET//SI//NFTEL

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Bunker					Earth mounted, wooden structure in front of bunker.
2	Bunker					Earth mounted, previously used for nuclear warhead storage.
3	Bunker					Earth mounted, previously used as SS-7 missile-ready bunker.
4	Bunker					Earth mounted, previously used as SS-7 missile-ready bunker.
5	Single-bay garages (8) Door opening					Sliding roof houses SS-20 missile on TEL vehicles. Configurations of flat-roofed structures have been noted.
6	3-bay garages (3) Door opening					Flat roof, single story. 3 sets of doors. Houses SS-20 missile support area.
7	Security bldg					Flat roof, single story.
8	Bunker					Earth mounted, used for vehicle storage.

General Support Area

43. (S//D) The general support area (Figure 9 and Table 8) consists of four subareas: a housing/administration area, a communications area, a vehicle maintenance/storage area, and a steam production area. The agricultural area usually associated with SS-20 mobile IRBM bases has not been identified.
44. (S//D) The housing/administration area consists of two dormitories and two barracks that total [] meters of roofcover. Two administration buildings, two messhalls, a food storage building, a firehouse, and several utility buildings are also within this area. A probable administration building was observed under construction near the two dormitories.
45. (S//D) The communications area consists of a C3 building with a roof-mounted YU-EL-01 antenna and two [] lattice towers that are cable connected to the control building.
46. (S//D) The vehicle maintenance/storage area consists of one 11-bay garage, three drive-in bunkers, one eight-bay garage, two workshops/parts storage buildings, and one utility building. A security building controls access into the area containing the three drive-in bunkers, the eight-bay garage, one administration building/workshop, and the utility building.
47. (S//D) The steam production area contains buried fuel storage tanks, a steam production plant, a pumphouse, an auxiliary diesel generator plant, a utilities-associated building, and a storage building. This facility is separately secured by a single fence.
48. (S//D) A single security fence encircles the entire general support area. Security buildings are at the main entrance to the operations area.

The vehicle maintenance/storage area and the steam production area are each separately secured by a single security fence.

Yurya Mobile IRBM Base 5

49. (S//D) Yurya Mobile IRBM Base 5 was constructed at Yurya Launch Position 3. This launch position was originally a type-11B launch site constructed between January 1961 and June 1962. It was an operational SS-7 launch site that had been dismantled by []. Conversion to an SS-20 mobile IRBM base was identified on [] by December 1981, the base appeared to be capable of maintaining operational SS-20 mobile missile units. During the conversion process, existing SS-7 facilities were used when feasible; however, many new SS-20-related buildings were constructed (Figures 10 and 11).

50. (S//D) The base is divided by function into two distinct areas—an operations area and a general support area.

Operations Area

51. (S//D) The operations area of Mobile Base 5 (Figure 10 and Table 9) includes nine single-bay, sliding-roof garages; three three-bay garages; one security building; and three smaller structures. The single-bay garages are arranged in groups of three. Each three-bay garage is cable connected to a group of single-bay garages which house a battalion; three battalions form a regiment. Several bunkers of various sizes, two of which are large enough to accommodate SS-20 launch-related vehicles with missile canisters, are also in this area. The two largest bunkers were previously used as SS-7 missile-ready bunkers and subsequently underwent modification during the SS-20 conversion.

Table 8.
General Support Area, Mobile IRBM Base 4
(Keyed to Figure 9)
This table in its entirety is classified SECRET//SI//NFTEL

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Admin bldg					Flat roof, 2 stories
2	Dormitory					Flat roof, 2 stories
3	Admin bldg					Flat roof, 2 stories
4	Dormitory					Flat roof, 2 stories
5	Barracks					Peaked roof, single story
6	Messhall					Flat roof, single story
7	Messhall					Flat roof, single story
8	Utility bldg					Flat roof, single story
9	Food storage bldg					Flat roof, single story
10	Barracks/rec bldg					Peaked roof, stepped down, 2 stories
11	Utility bldg					Flat roof, single story
12	Utility bldg					Flat roof, single story
13	Utility bldg					Flat roof, single story
14	Maintenance/storage bldg					Flat roof, single story
15	Bathhouse					Peaked roof, single story
16	Pumphouse					Flat roof, single story
17	Auxiliary diesel generator plant					Flat roof, single story
18	Freitouse					
19	Steam production plant					Flat, stepped roof, single story
20	Garage					Flat roof, single story, 8 bays
21	Utility bldg					Flat roof, single story
22	Storage bldg					Peaked roof, single story
23	Workshop parts stor bldg					Flat roof, single story
24	Bunker					3 arched-roof sec drive in
25	Bunker					Earth mounded, drive in
26	Garage					Flat roof, single story, 11 bays
27	Bunker					Earth mounded, drive in
28	Workshop parts stor bldg					Flat roof, single story
29	Storage bldg					Peaked roof, single story
30	C3 bldg					Flat roof, 6-bayed, single story

The modifications included the addition of vents in the roofs of the bunkers.

52. (S/D) Security for the operations area includes six perimeter fences and a security building at the entrance. Four guardposts are along the perimeter fence. Lighting for the operations area was increased by installing lights approximately every 30 meters along the service road.

General Support Area

53. (S/D) The general support area (Figure 11 and Table 10) consists of four subareas: a housing/administration area, a communications area, a vehicle maintenance/storage area, and a steam production area.

54. (S/D) The housing/administration area consists of 12 barracks totaling [] meters of roofcover. Three administration buildings, one messhall, two food storage buildings, a firehouse, and several smaller structures are also in this area.

55. (S/D) The communications area consists of a C3 building with a roof-mounted YU-EL-01 antenna, two [] lattice towers that are cable connected to the control building, and an 11-bay vehicle storage garage.

56. (S/D) The vehicle maintenance/storage area consists of five drive-through, earth-mounded bunkers and two workshops/parts stor-

age buildings. A security building controls access into the area.

57. (S/D) The steam production area contains buried fuel storage tanks, a steam production plant, a pumphouse, an auxiliary diesel generator plant, and a utility building.

58. (S/D) Security buildings are at the entrance to the operations area and at the entrance to the vehicle maintenance/storage area.

Rail-to-Road Transfer Point []

59. (S/D) Yurya ICBM RTP []

Figure 12 and Table 11) is 8.1 nm northeast of the Yurya SSM Complex support facilities, at the terminus of a spur of the Kirov-Kollas rail line. The spur branches into two main spurs and several sidings. An elongated oval road, adjacent to the terminus of one of the spurs, serves the RTP and connects it with the complex main road. The RTP originally supported the Yurya ICBM Complex but has subsequently undergone changes in order to support the SS-20 division.

60. [] was constructed during the SS-20 conversion phase and is a significant modification to the facility. The facility consists of three major buildings and a large, open-sided shed where payload assembly, calibra-

(Continued p. 15)

Table 9.
Operations Area, Yurya Mobile IRBM Base 5
(Keyed to Figure 10)

This table in its entirety is classified SECRET//NOFORN

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Single-bay garages (9) Door opening					Sliding roof; houses SS-20 missile on TEL; various configurations of flat-roofed sections have been added
2	Bunker					Earth mounded
3	3-bay garages (3) Door opening					Flat roof; single story; 3 sets of doors; houses SS-20 missile support vans
4	Bunker					Earth mounded; previously used as SS-7 missile-ready bunker
5	Bunker					Earth mounded
6	Utility bldg					Flat roof; single story
7	Bunker					Earth mounded; previously used as SS-7 missile-ready bunker
8	Security bldg					Flat roof; single story

Table 10.
General Support Area, Yurya Mobile IRBM Base 5
(Keyed to Figure 11)

This table in its entirety is classified SECRET//NOFORN

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Workshop parts stor bldg (2)					Flat roof; single story
2	Bunker					Earth mounded
3	Bunker					Earth mounded
4	Bunker					Earth mounded
5	Bunker					Earth mounded
6	Bunker					Earth mounded
7	Security bldg					Flat roof; single story
8	Auxiliary diesel generator plant					Flat roof; 2 stories
9	Firecock					Peaked roof
10	Steam production plant					Flat; stepped roof; single story
11	Storage bldg					Flat roof; single story
12	Food storage bldg					Flat roof; single story
13	Food storage bldg					Partially buried; flat roof
14	Admin bldg					Peaked roof; single story
15	Baracks					Peaked roof; single story
16	Admin/rap bldg					Peaked roof; single story
17	Baracks					Peaked roof; single story
18	Admin bldg					Peaked roof; single story
19	Messhall					Flat roof
20	Partially dismantled barracks					Peaked roof; single story
21	Baracks					Peaked roof; single story
22	Baracks					Peaked roof; single story
23	Baracks					Peaked roof; single story
24	Baracks					Peaked roof; single story
25	Baracks					Peaked roof; single story
26	Baracks					Peaked roof; single story
27	Baracks					Peaked roof; single story
28	Baracks					Peaked roof; single story
29	Baracks					Peaked roof; single story
30	C3 bldg					Flat roof; single story; C-shaped
31	Garage					Flat roof; single story; 11 bays

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Table 11.
Yurya Rail-to-Road Transfer Point
(Keyed to Figure 12)

This table in its entirety is classified SECRET/WNINTEL

No	Description	Dimensions (m)			Roof Cover (sq m)	Remarks
		L	W	H		
1	Steam production plant					Multiple-stepped roof
2	Fuel tank					diameter
3	Fuel tank					diameter
4	Storage bldg					Flat roof
5	Pumphouse					Flat roof
6	Propellant storage shelter					Flat roof
7	Propellant storage shelter					Flat roof
8	Bunker					Earth mounded; drive through
9	Storage bldg					Peaked roof
10	Storage bldg					Peaked roof
11	Storage bldg					Peaked roof
12	Security bldg					Peaked roof
13	Vehicle maintenance bldg					Flat roof; single story
14	Vehicle maintenance bldg					Flat, stepped roof
15	Clerestory (missile inspection and maint bldg)					Flat roof
16	Technical support bldg					Flat roof; single story
17	Maintenance bldg					Flat roof; single story
18	Vehicle maintenance bldg					Flat roof; single story
19	Garage					Flat roof; single story
20	Vehicle maintenance bldg					Flat roof; single story
21	Vehicle maintenance bldg					Flat roof; single story
22	Bunker					Earth mounded; drive through
23	Dormitory					Flat roof; 2 stories
24	Garage					Flat roof; single story; 11 bays
25	High, two-bay bldg					Flat, stepped roof
26	Technical support bldg					Flat roof; single story
27	Security bldg					Flat roof; single story
28	Clerestory bldg					Flat, stepped roof

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tion, and testing are conducted. A drive-through clerestory building (item 28, Figure 12), one of the major buildings at the facility, is similar to those at ICBM facilities. It is probably used for receipt, inspection, maintenance, and assembly of reentry vehicles. Another major building, a high, two-bay building (item 25) is associated with guidance calibration and checkout. The third major building, a technical support building (item 26), is connected to the high, two-bay building by a covered conduit. This building probably houses electrical equipment needed for the protection of easy access to the computer links/cables that

extend into the high, two-bay building. A large, open-sided shed used for temporary parking of SS-20-associated ground support equipment is at one end of the technical support building. A security building controls access to the facility, which is enclosed by six fences. Four guardposts are near the inner security fence.

61. (S/D) A driver training area is immediately east of the RTP (inset, Figure 12). It consists of a mockup of a drive-in building, two drive-in revetments, a grease-rack simulator, an RTP off/onloading simulator, and a series of winding roads that offer a variety of turning radiuses.

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IMAGERY

(S/D) All relevant satellite imagery acquired between [] was used in the preparation of this report. 25X1

MAPS OR CHARTS

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RELATED DOCUMENT

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REQUIREMENT

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(S) Comments and queries regarding this report are welcome. They may be directed to CW03 [] 25X1
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